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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TP/01

Lab ID : CP-2018-12-27-124

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. Date: 10/08/2017

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13

Agency : Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.

Customer's Reference : EE/DD/LOA/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-07-17

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	13/07/2017	10/08/2017	150.46 X 150.58 X 150.43	22656	8.312	539.2	23.8	23.6
2	M20 Concrete	M20	13/07/2017	10/08/2017	150.44 X 150.52 X 150.47	22644	8.331	525.3	23.2	
3	M20 Concrete	M20	13/07/2017	10/08/2017	150.38 X 150.56 X 150.33	22641	8.345	536.6	23.7	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig Date

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/07/2017

Lab ID	:	**CP-2018-12-27-124**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13
Agency	:	Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.
Customer's Reference	:	EE/DD/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-07-17
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	13/07/2017	20/07/2017	150.52 X 150.34 X 150.45	22629	8.312	389.2	17.2	17.5
2	M20 Concrete	M20	13/07/2017	20/07/2017	150.52 X 150.34 X 150.45	22629	8.331	398.3	17.6	
3	M20 Concrete	M20	13/07/2017	20/07/2017	150.52 X 150.44 X 150.35	22644	8.345	400.8	17.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 10/08/2017

Lab ID	:	**CP-2018-12-27-124**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
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Agency	:	Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.
Customer's Reference	:	EE/DD/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-07-17
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	13/07/2017	10/08/2017	150.34 X 150.54 X 150.47	22632	8.312	538.6	23.8	23.7
2	M20 Concrete	M20	13/07/2017	10/08/2017	150.32 X 150.54 X 150.43	22629	8.331	534.0	23.6	
3	M20 Concrete	M20	13/07/2017	10/08/2017	150.46 X 150.54 X 150.39	22650	8.345	536.8	23.7	

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-27-124** **Date: 08-07-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward
Agency	:	Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.
Customer's Reference	:	EE/DD/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-07-17
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-27-124** **Date: 08-07-17**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.68	-
4	Bulk Density(Loose) (Kg/l)	1.48	-
5	Bulk Density(Compacted) (Kg/l)	1.56	-
6	Water Absorption(%)	0.24	-

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Lab ID	:	**CP-2018-12-27-124** **Date: 08-07-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
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Project Name	:	Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13
Agency	:	Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.
Customer Reference	:	EE/DD/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-17
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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